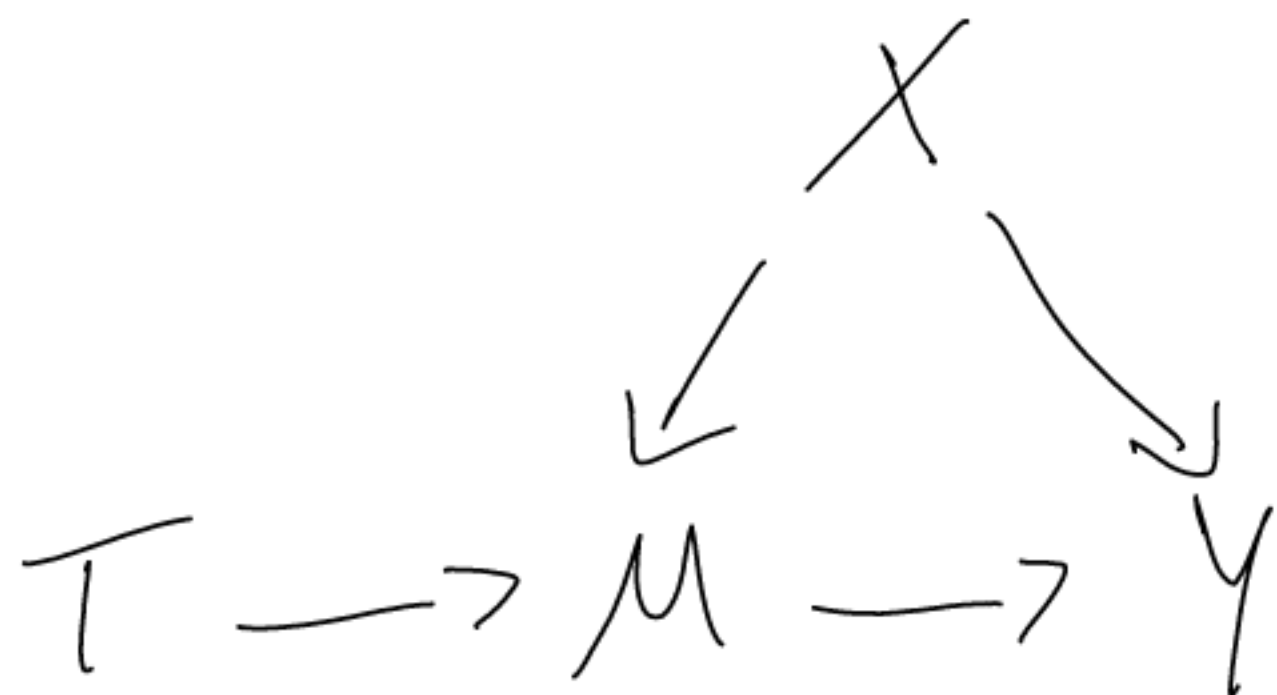


T : Electricidad (0: No hay, 1 hay)
 X : Interruptor (0: apagado, 1 prendido)
 M : Sistema (0: no funciona, 1 funciona)
 Y : Alarma (0: apagada, 1 prendida)

Red Bayesiana



$$\left. \begin{aligned} T &= 0 \\ X &= 1 \end{aligned} \right\} \text{los ruidos.}$$

$$M = T \cdot X$$

$$Y = M + X$$

Structural Equation Model

$$P(T) = \text{Bernoulli}(p)$$

$$P(X) = \text{Bernoulli}(q)$$

$$P(M|T, X) = \mathbb{I}(M = T \cdot X)$$

$$P(Y|X, M) = \mathbb{I}(Y = M + X)$$

Y	$M=0$	$M=1$
$X=0$	0	1
$X=1$	1	0